### 2003

# Virginia Department of Transportation Daily Traffic Volume Estimates Including Vehicle Classification Estimates

where available

# Special Locality Report 156

Town of Warrenton

Prepared By

Virginia Department of Transportation Mobility Management Division

In Cooperation With

U.S. Department of Transportation Federal Highway Administration

### Virginia Department of Transportation Mobility Management Division Traffic Monitoring Section

The Virginia Department of Transportation (VDOT) conducts a program where traffic count data are gathered from sensors in or along streets and highways and other sources. From these data, estimates of the average number of vehicles that traveled each segment of road are calculated. VDOT periodically publishes booklets listing these estimates.

One of these booklets, titled "Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes" includes a list of each Interstate and Primary highway segment with the estimated Annual Average Daily Traffic (AADT) for that segment. AADT is the total annual traffic estimate divided by the number of days in the year. This booklet also includes information such as estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks; estimated Annual Average Weekday Traffic (AAWDT), which is the number of vehicles estimated to have traveled the segment of highway during a 24 hour weekday averaged over the year; as well as Peak Hour and Peak Direction factors used by planners to formulate design criteria.

In addition to the Primary and Interstate publication, one hundred books are published periodically, one for each of 100 areas across the state defined by VDOT for record-keeping purposes. These books include traffic volume estimates for roads within the county, cities, and towns within the area. These books are titled "Daily Traffic Volumes Including Vehicle Classification Estimates, where available; Jurisdiction Report numbers 00 through 99".

Also available are a number of reports summarizing the average Vehicle Miles Traveled (VMT) in selected jurisdictions and other categories of highways. There are many different ways to present traffic volume summary information. Because the user determines the value of each presentation, the reports have been redesigned based on user requests and feedback. The people at VDOT Mobility Management's Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

A compact disc (CD) is available that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. The CD includes the publications described above as well as a number of other reports, including specialized VMT summaries and smaller AADT reports for each city and town separately.

#### **Publication Notes**

#### Parallel Roads

For road inventory and management purposes, some roadways are counted separately by direction and have separately published traffic estimates for each direction of travel. Examples of such roadways are the interstate system and routes with separated facilities and (usually) one-way traffic facilities in urban areas. In these publications, they are referred to as parallel roads. As a convenience for the users of the publication, the listing for segments of roads with parallel segments are published with both the traffic estimates for their own direction of travel (e.g. I-95 Northbound) as well as the estimate of the total of all traffic on the same route including parallel roadways (all directions of I-95). The publication will have a "Combined Traffic Estimates for Parallel Roadways on this Route" or "Combined Traffic" identifiers for the combined direction of travel estimates.

Roadways such as I-395 with a North segment, a South segment and a separate Reversible lane segment will have the estimate for more than two parallel roadways included in the entire combined traffic estimate.

Some routes have very complicated paths through cities and towns. These parallel paths may be too complex to allow a relationship between nearby sections of the opposite direction on the same route. In this case, to indicate that the traffic estimates for such a road segment may not include all directions of traffic on that route, the line that would list the combined values will indicate "NA" for not available.

VDOT's traffic monitoring program includes more than 100,000 segments of roads and highways ranging from several mile sections of Interstate highways to very short sections of city streets. Due to problems experienced obtaining some traffic count data, and the level of quality necessary to maintain confidence in the data, no estimate is currently available for some segments of roadway. These segments are included in the publications indicating "NA" for not available. It is the intention of the VDOT's Mobility Management Traffic Monitoring group to obtain the data necessary and to report traffic volume estimates on all road segments included in these publications.

Many of the road segments in this program are local secondary roads. The amount and detail of data collected on these roads are not as great as the data collected on higher volume roads. The vehicle classification, average weekday traffic volumes, and the theoretical design hour traffic volumes are not calculated for these roads. The publications indicate "NA" for the information that is not available.

This publication is based on a traffic monitoring program initiated in 1997. Because the data collection techniques and statistical evaluation processes are different than those used in previous years, comparison with previous publications may be misleading.

Glossary of Terms:

Route: The Route Number assigned to this segment of roadway with the master inventory route number if this is an overlapping route, with official street or highway name if available.

Length: Length of the traffic segment in miles.

AADT: Annual Average Daily Traffic. The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

QA: Quality of AADT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- H Historical Estimate
- M Manual Uncounted Estimate
- N AADT of Similar Neighboring Traffic Link
- O Provided By External Source
- R Raw Traffic Count, Unfactored

**4Tire**: Percentage of the traffic volume made up of motorcycles, passenger cars, vans and pickup trucks.

Bus: Percentage of the traffic volume made up of busses.

**2Axle Truck**: Percentage of the traffic volume made up of 2 axle single unit trucks (not including pickups and vans).

**3+Axle Truck**: Percentage of the traffic volume made up of single unit trucks with three or more axles

1Trail Truck: Percentage of the traffic volume made up of units with a single trailer.

2Trail Truck: Percentage of the traffic volume made up of units with more than one trailer.

QC: Quality of Classification Data:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- C Short Term Classified Traffic Count Data
- F Factored Short Term Traffic Count Data
- H Historical Estimate
- M Mass Collective Average
- N Classification Estimates of Similar Neighboring Traffic Link

K Factor: The estimate of the portion of the traffic volume traveling during the peak hour or design hour.

QK: Quality of the Peak Hour estimate:

- A Factor based on 30th Highest Hour Observed During at least 250 days of Continuous Traffic Data
- B Factor based on other Hour Observed During Less than 250 days of Continuous Traffic Data
- Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of design hour
- N Peak Hour Factor of Similar Neighboring Traffic Link
- O Provided by External Source

Dir Factor: The estimate of the portion of the traffic volume traveling in the peak direction during the peak hour..

AAWDT: Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday inclusive.

QW: Quality of AAWDT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- M Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source

Year: Year for which the published values are appropriate. If the Quality of AADT (QA) is "R", the year is the year that the raw traffic count was collected, and if available,

### Route Shield Legend

#### Route Systems

North
81 Interstate Route Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.

(29) US Route

7 Virginia State Route

(600) Secondary Route

#### **Special Routes**

Bus Bus - Business Route
Bypas - Bypass Route
Truck - Truck Route
ALT ALT - Alternate Route
Wve - Wve Route connector

P - Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.

The VDOT Maintainenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

# Virginia Department of Transportation Mobility Management Division 2003 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Warrenton

Route   Length   AuDt   Value   September   Septembe							Town of Warre	enton								
Table   Tabl	Route	Length	AADT	QA	4Tire	Bus			2Trail	- QC		QK		AAWDT	QW	Year
15	Town of Warrenton															
Second   S	$\sim$	0.00		_		40/			00/	_	0.070	_	0.00	05000	_	0000
Second   Part	15	0.26	26000	G	_	1%			0%	F	0.079	F	0.66	25000	G	2003
Sames Madison Hwy									l							
Second   Part   Second   Sec		0.24	0000	NI.		10/			00/	NI	0.1	N.	0.601	11000	N.I	2002
## 10   Falmouth St   0.78   2600   G   95%   2%   2%   0%   1%   0%   C   0.106   F   0.520   2600   G   2003	15 James Madison Hwy	0.34	9900	N	96%	1%	2% 1%	1%	0%	IN	0.1	IN	0.601	11000	IN	2003
Table   Tabl	Bus				From:		US 17 Bus; Shirle	y Ave	-							
Second   Column   C		0.78	2600	G	95%	2%	2% 0%	1%	0%	С	0.106	F	0.520	2600	G	2003
Second   Color   Col					To:		L aa St									
Bits   Blackwell Rd   0.58   12000   G   99%   1%   1%   0%   0%   0%   0%   0%   0				_											_	
The color of the	15 Falmouth St	0.43	6700	G	_	1%		1%	0%	С	0.096	F	0.543	6700	G	2003
15   Main St   0.05   6700   N   95%   1%   3%   0%   1%   0%   N   0.096   N   0.543   6700   N   2003	Rue							+								
15   Main St		0.05	6700	N	96%	1%			0%	Ν	0.096	N	0.543	6700	N	2003
Sect	(19)				т											
Substitute   Sub	Bus															
Bias	15 Main St	0.01	6700	N	96%	1%			0%	Ν	0.096	N	0.543	6700	N	2003
15   Alexandria Pike	<b>\( \)</b>							ke								
Sus		0.24	6600	G		10/		O°/-	O°/-	C	0 006	E	0.570	6500	C	2003
Sus   Blackwell Rd   0.58   12000   G   98%   1%   1%   0%   0%   0%   0%   0%   0	(15) Alexanuna Fike	0.24	0000	G	JU 70	1 /0		0 70	U /0	C	0.090	1.	0.578	0000	G	2003
Total   Tota	Bus				From:		King St									
Bus		0.21	9100	G	98%	1%	1% 0%	0%	0%	F	0.100	F	0.532	9100	G	2003
Bus							Blackwell Ro	d								
Total   Substitute   Substitu				_		101			201	_		_		40000		
Bus   15   Lee Hwy   0.59   3500   G   98%   1%   1%   0%   0%   0%   0%   0%   0	15 Blackwell Rd	0.58	12000	G					0%	С	0.097	F	0.630	12000	G	2003
15   Lee Hwy   0.59   35000   G   98%   1%   1%   0%   0%   0%   0%   0%   0	Rue															
1.52   12000   G	~~~	0.59	35000	G					0%	F	0.088	F	0 568	34000	G	2003
1.52   12000   G	(19) 250 1	0.00	00000			170				•	0.000	·	0.000	0.000	Ü	2000
1.52   12000   G   83					From:											
Bus   Bus   Trans   SCL   Warrenton   SCL   Wa	17	1 52	12000	G	83%	1%			0%	F	0.076	F	0.532	11000	G	2003
Sust				_						-		•				
The color of the	Rue Rue				From:		SCL Warrento	on								
Bus US 15   Shirley Ave   0.96   13000   G   96%   1%   2%   0%   0%   0%   0%   0%   0%   0	~~~	0.34	9900	N	96%	1%			0%	Ν	0.1	N	0.601	11000	N	2003
Shirley Ave   0.96   13000   G   96%   1%   2%   0%   0%   0%   0%   0%   0%   0					_											
Bus   14000   G   96%   1%   2%   0%   0%   0%   0%   0%   0%   0							US 15 Bus									
Bus	17 Shirley Ave	0.96	13000	G	96%	1%	2% 0%	0%	0%	С	0.085	F	0.562	13000	G	2003
Bus   17   Broadview Ave   0.86   34000   G   96%   1%   2%   0%   1%   0%   C   0.081   F   0.592   34000   G   2003					To:		Culpeper St		Ī							
Bus   17   Broadview Ave   0.86   34000   G   96%   1%   2%   0%   1%   0%   C   0.081   F   0.592   34000   G   2003	Bus	0.80	14000	G	06%	1%	2% 0%	0%	0%	C	0.085	F	0 538	15000	G	2003
Bus	(17)	0.00	14000	G	90 /6	1 /0			0 /0	C	0.005	•	0.556	13000	G	2003
Broadview Ave   0.86   34000   G   96%   1%   2%   0%   1%   0%   C   0.081   F   0.592   34000   G   2003	Bus				From:		US 211 Bus	1								
Bus	17 Broadview Ave	0.86	34000	G	96%	1%	2% 0%	1%	0%	С	0.081	F	0.592	34000	G	2003
Bus					To		US 20 Rus: Lee	Hww	1.							
SCL Warrenton   SCL Warrento	Bus			_						_		_			_	
SCL Warrenton   SCL Warrento	17 Broadview Ave	0.57	13000	G		1%			0%	С	0.092	F	0.523	13000	G	2003
Columbia	~															
Bus												_			_	
Bus	29 (15)	0.26	26000	G		1%			0%	F	0.079	F	0.66	25000	G	2003
Section   Final Color   Section	~ ~															
Bus	~~~					461			601		<u> </u>		0.05:	4.0		000=
Bus Bus   Bu	29 15 James Madison H	0.34	9900	N		1%			0%	N	0.1	N	0.601	11000	N	2003
Bus	Rue Rue															
Bus Bus   Culpeper St   Culpep		0.96	13000	G		1%			0%	C	0.085	F	0 562	13000	G	2003
Bus Bus   Bu	(29) (17) Similar Ave	5.50	.5000	_	_	1 /0			J /0	5	5.000	•	0.002	.0000	J	_000
Columbia	Bus Bus				From:		Culpeper St									
Bus Bus   US 17, US 211   US 1	~~~	0.80	14000	G	96%	1%	2% 0%	0%	0%	С	0.085	F	0.538	15000	G	2003
(29) (17) Broadview Ave 0.86 <b>34000 G</b> 96% 1% 2% 0% 1% 0% C 0.081 F 0.592 34000 G 2003	$\bigcirc$				To:		US 17 US 21	1								
	~~~	0.00	0.4000	_		461			001	^	0.001	_	0.500	0.4000	^	0000
10. US 17	29 17 Broadview Ave	0.86	34000	G		1%		1%	υ%	С	0.081	F	0.592	34000	G	2003
	~ ~				lo:		US 17									

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# Virginia Department of Transportation Mobility Management Division 2003 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Warrenton

Route	Length	AADT	QA	4Tire	Bus	Truck 2Axle 3+Axle 1Trail		QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Warrenton				-										
Bus			_	From:		US 17 Bus; Winchester St							_	
29 Lee Hwy	0.55	31000	G	96%	1%	2% 0% 1%	0%	С	0.079	F	0.558	31000	G	2003
<u> </u>				To: From:		US 15 Bus; Blackwell Rd								
Bus Bus			_			BUS US 15		_		_			_	
29 \ \ 15 \ Lee Hwy	0.59	35000	G	98%	1%	1% 0% 0%	0%	F	0.088	F	0.568	34000	G	2003
<del>*</del> *				To:		NCL Warrenton								
				From:		WCL Warrenton								
211 Frost Ave	0.44	24000	G	96%	1%	2% 0% 1%	0%	С	0.091	F	0.646	24000	G	2003
211)				т.,		0.43.63								
~			_	From:		04 Miles West of Shirley Ave	201			_			_	
Frost Ave	0.04	26000	G	96%	1%	2% 0% 1%	0%	F	0.094	F	0.68	26000	G	2003
<del>~</del>				To:	D. 10.	Shirley Ave; US 17 Bus								
Bus			_	From:		US 17 BUS US 29, BUS US 2		_		_		0.1000	_	
211 (17) Broadview Ave	0.86	34000	G	96%	1%	2% 0% 1%	0%	С	0.081	F	0.592	34000	G	2003
<del></del>				To:		BUS US 17	ŀ							
Bus			_		40/		201	_		_		0.4000	_	
211 } { 29 } Lee Hwy	0.55	31000	G	96%	1%	2% 0% 1%	0%	С	0.079	F	0.558	31000	G	2003
~ ~				To:		ECL WARRENTON								
Bus				From:		Broadview Ave								
211 Waterloo St	0.62	8400	G	96%	1%	2% 0% 0%	0%	С	0.094	F	0.587	8300	G	2003
211)	J.U_	00	-		. 70			Ŭ	J.30 /	•	0.501	2300	-	_000
Bus				From:		Alexandria St								
	0.10	12000	G	96%	1%	2% 0% 0%	0%	F	0.088	F	0.729	12000	G	2003
211	0.10	500	•	To:	1 /0	US 15 Bus		•	0.000	•	0.720	000	•	_000
Bus Bus				From:		US 15 BUSINESS								
~~ ~~	0.01	6700	N	96%	1%	3% 0% 1%	0%	N	0.096	N	0.543	6700	N	2003
211 (15) Main St	0.01	0700	14	To:	1 /0		070	14	0.030	IN	0.545	0700	IN	2000
Bus Bus				From:		Alexandria Pike Main St								
~~ ~~	0.24	6600	G	98%	1%	1% 0% 0%	0%	С	0.096	F	0.579	6500	G	2003
211 (15) Alexandria Pike	0.24	0000	G	90 70	1 70	170 070 070	076	C	0.090	Г	0.579	6500	G	2003
Due Due				From:		King St								
Bus Bus Alexandria Ct	0.04	0400	_		40/		00/	_	0.400	_	0.500	0400	_	2002
211 \ \ \ 15 \ Alexandria St	0.21	9100	G	98%	1%	1% 0% 0%	0%	F	0.100	F	0.532	9100	G	2003
~ ~				To: From:		Blackwell Rd	-							
Bus Bus Blackwall But	0.50	40000	_		40/	Alexandria Pike	00/	_	0.007	_	0.000	40000	0	0000
211 \ (15 \) Blackwell Rd	0.58	12000	G	98%	1%	1% 0% 0%	0%	С	0.097	F	0.630	12000	G	2003
<del>~</del> ~				To:	U	JS 29 BUS US 211 Lee Hwy								
				From:		Blackwell Rd								
2 Alexandria Pike	0.58	260	G	93%	1%	4% 1% 0%	0%	С	0.123	F	0.593	250	G	2003
				To:		Dead End								
				F										
0.10: 0	0.00		_	From:	40/	Broadview Ave	00/	_	0.440	_	0.500	0000	•	0000
3 Oak Springs Dr	0.26	3900	G	98 <u>%</u>	1%	1% 0% 0%	0%	С	0.116	F	0.503	3900	G	2003
				To:		Branch Dr								
				From:		Lee Hwy								
4 Branch Rd	0.19	2200	G	96%	1%	3% 0% 0%	0%	С	0.094	F	0.557	2200	G	2003
4 Branch Rd	0.10		•	To:	1 /0	Oak Springs Dr	370	J	0.007	•	0.001	2200	9	2000
				From:		WCL Warrenton								
880) Bear Wallow Rd	0.49	2600	G	96%	0%	3% 1% 0%	0%	С	0.116	F	0.78	2600	G	2003
				To:		Broadview Ave								
				From:		WCL Warrenton								
886) Waterloo Rd	0.58	3400	c	97%	0%		0%	С	0.127	_	0.776	3400	G	2002
AND VVAICHOURS		3400	G	97% To:	U 7/0		U 70	C	0.127	F	0.110	3400	G	2003
566) 11 4161166 1 14	0.50			From:		Rappahannock St	-							
	0.50					Frost Ave								
		4000	_	110111.					0 40 4	_	0.004	4000	$\sim$	2000
	0.03	1600	G						0.124	F	0.921	1600	G	2003
		1600	G	To:		US 211 Waterloo Rd			0.124	F	0.921	1600	G	2003
		1600	G						0.124	F	0.921	1600	G	2003
886) Rappahannock St	0.03			To: From:	0%	Falmouth St	0%	С						
886) Rappahannock St		1600	G G	To:	0%	Falmouth St 2% 0% 0%	0%	С	0.124	F	0.921	10000	G G	
886) Rappahannock St	0.03			To: From: 97% Ta-	0%	Falmouth St 2% 0% 0% ECL Warrenton	0%	С						
886) Rappahannock St  893) Meetze Rd	0.03	10000	G	To:  From:  97%  To:		Falmouth St 2% 0% 0% ECL Warrenton Alexandria St			0.101		0.527		G	2003
886) Rappahannock St	0.03			To: From: 97% Ta-	0%	Falmouth St 2% 0% 0% ECL Warrenton	0%	С						2003

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# Virginia Department of Transportation Mobility Management Division 2003 Annual Average Daily Traffic Volume Estimates By Section of Route Town of Warrenton

Route	Length	AADT	QA	4Tire	Bus		Tru 3+Axle			QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
Town of Warrenton						25 000	0.7040	rrian			1 dotor		1 40101			
				From:			King St									
(1893) Winchester St	0.69	4900	G	97%	0%	2%	0%	0%	0%	C 0.097	F	0.608	4900	G	2003	
				To			ee Hwy									
				From:			rley Ave			_		_			_	
(1894) Culpeper St	0.38	3000	G	98%	0%	2%	0%	0%	0%	С	0.1	F	0.646	3000	G	2003
				To: From:	Hotel St											
(1894) Culpeper St	0.04	1900	G	98%	0%	2%	0%	0%	0%	F	0.087	F		1900	G	2003
				To:		N	Iain St									
		4600	G	From:			US15							4600	G	
(1895) Old Broadview Ave	0.17			97 <u>%</u>	0%	2%	0%	0%	0%	С	0.107	F	0.514			2003
				To:			US 17									
Branch Dr				From:		L	ee Hwy									
		2200	G								0.105	F		2300	G	2003
				To:		A	rbor Ct									
East St			G	From:		N	Iain St								G	
		210									0.124	F		230		2003
				To:		ECL.	ECL. Warrenton									

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